

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S MOUNTING INSTRUCTIONS AND USING THE RECOMMENDED MOUNTING HARDWARE.

LUMINAIRE MOUNTING — LAY—IN CEILING DETAIL, TYP. SCALE: NTS

SYSTEMS CABLING SPECIFICATIONS		
SYSTEM (APPLICATION)	SHEATH COLOR	RACEWAY COLOR
1. DATA	ORANGE	NONE
2. VOICE	WHITE	NONE
3. WIRELESS NETWORK	GREEN/TEAL	NONE
4. CAMERA (SSTV)	VIOLET	NONE
5. PACS	BLACK	NONE

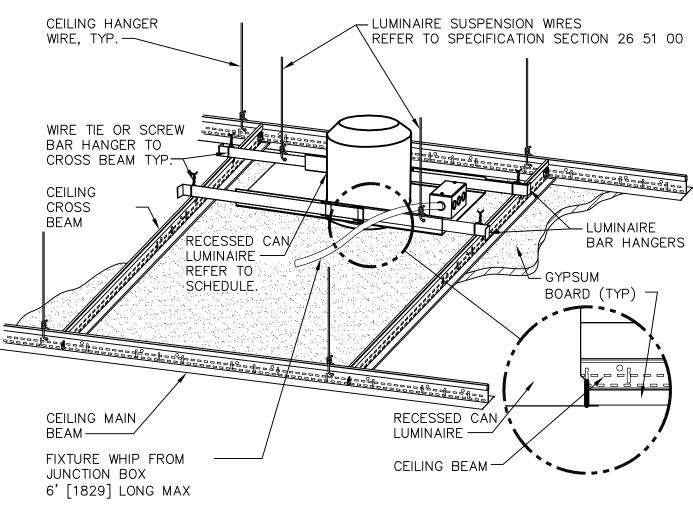
COMMUNICATION CABLE GUIDELINES:

one eighth inch = one foot

0
4
8
16

VA FORM 08-6231

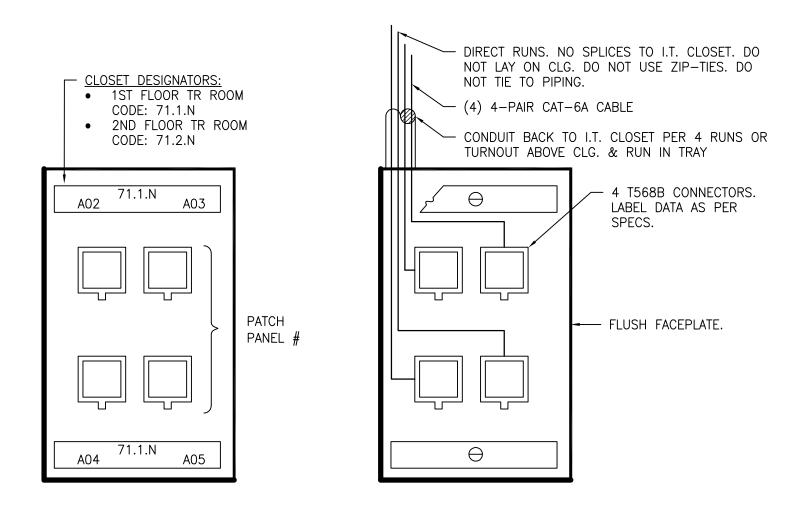
- 1. ALL CABLES SHALL BE UNSHIELDED TWISTED 4-PAIR, RATED CAT-6A. CONFIRM SHEATH COLOR WITH VA.
- 2. ALL DATA CABLES SHALL BE TERMINATED ON CAT-6A RATED PANELS (RJ-45) PER EIA/TIA-568B WIRING
- 3. ALL VOICE CABLES SHALL BE TERMINATED INTO CAT-6A 110 BLOCKS AND RACK-MOUNTED. 4. ALL CABLES SHALL BE NUMERICALLY LABELED (MECHANICALLY STENCILED IN BLACK INK (NOT HAND-WRITTEN)
- ON BOTH ENDS). LABEL NOMENCLATURE SHALL FOLLOW LOCAL VA STANDARDS. 5. FIBER SHALL BE TERMINATED USING "LC" TYPE CONNECTORS IN AN ENCLOSED FIBER BOX WITH SERVICE LOOP
- MOUNTED INTO DATA RACK. 6. MINIMUM FIBER SPECIFICATION SHALL BE OM4, MULTIMODE, 62.5 MICRON. 7. ALL MATERIALS SELECTED FOR USE BY THE CONTRACTOR SHALL BE APPROVED BY VA TELECOMMUNICATIONS
- DEPARTMENT PRIOR TO THEIR INSTALLATION. ARRANGE A COORDINATION MEETING TO REVIEW SUBMITTALS AND PROVIDE A WRITTEN CERTIFICATION LETTER WITH SUBMITTALS STATING THAT THE LOCAL VA HAS APPROVED SUBMITTALS.
- 8. ALL WALL JACK LOCATIONS AND LABELING SHALL BE RECORDED ON FINAL RECORD DRAWINGS. 9. ALL SECURITY SYSTEM CABLE AND WIRE (SSTV AND PACS) SHALL BE IN CONDUIT. THIS REQUIREMENT
- SUPERCEDES SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENT INSTRUCTIONS, SPECIFICATIONS OR DETAILS. 10. ALL TELECOMMUNICATIONS SYSTEM CABLE AND WIRING SHALL BE IN CONDUIT, CABLE TRAY, WIREWAY OR CABLE DUCT. NO OTHER WIRING METHOD IS APPROVED.
- 5 SYSTEMS CABLING SPECIFICATIONS
 SCALE: NTS



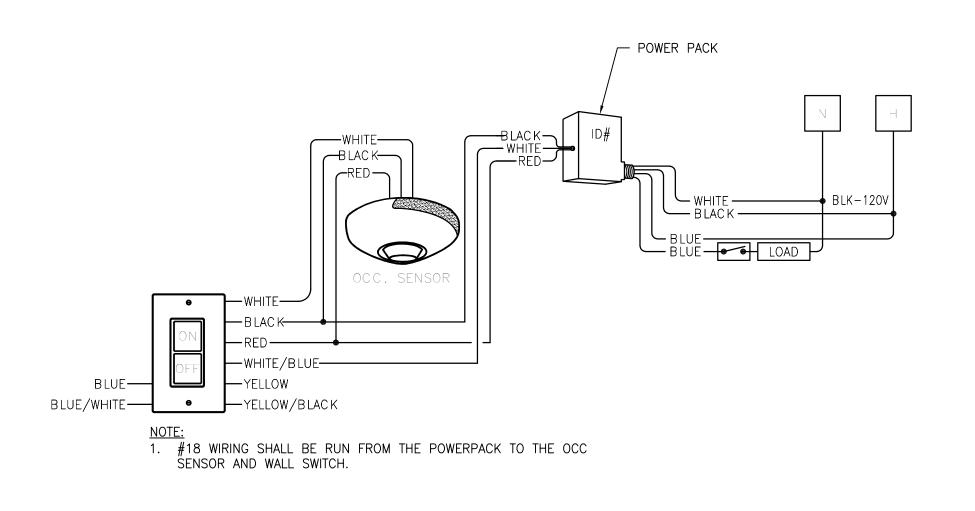
GENERAL NOTE:

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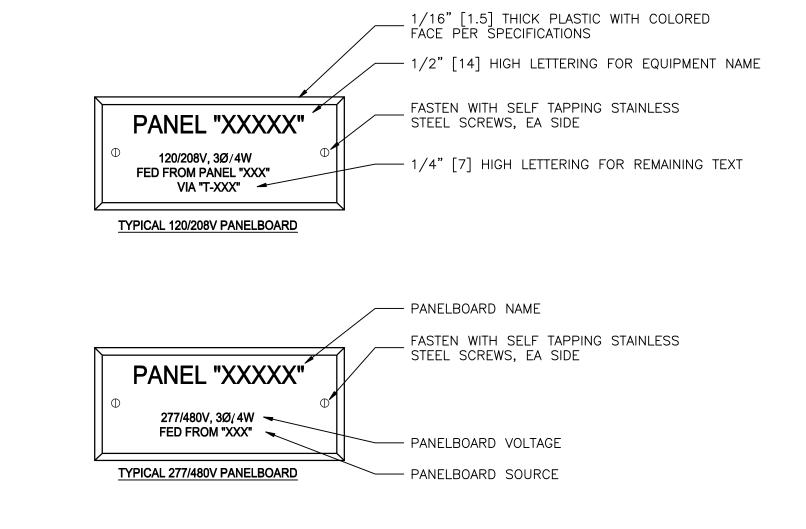
2 DOWNLIGHT MOUNTING — GYPBOARD CEILING DETAIL, TYP.



6 TELEPHONE/DATA OUTLET DETAIL, TYP. SCALE: NTS



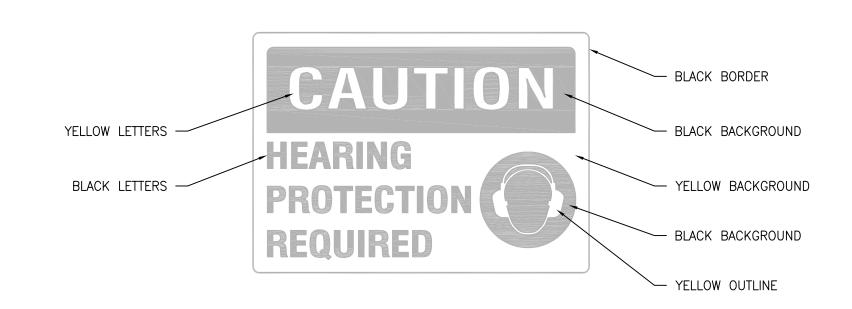
TYPICAL - OCCUPANCY SENSOR/LOW VOLTAGE SWITCH DETAIL



LABEL COLOR:

1. LABELS FOR EMERGENCY POWER SHALL BE RED WITH ENGRAVED WHITE LETTERS. 2. LABELS FOR NORMAL POWER SHALL BE BLACK WITH ENGRAVED WHITE LETTERS.

PANELBOARD LABELS
SCALE: NTS

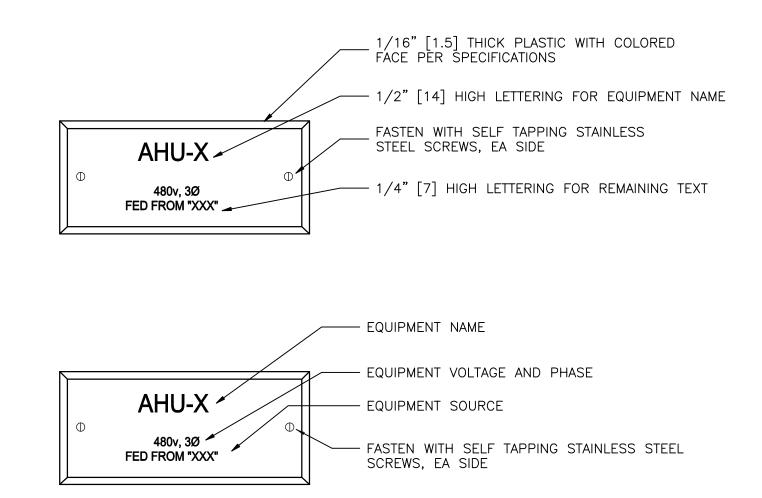


NOTES:

1. 10" X 14" [254 X 356] WARNING SIGN, 0.040" [1] RUST-FREE ALUMINUM WITH (4) #10 SCREWS.

2. AVERAGE TEXT SIZE OF 1-1/8" [30]. S. SIGN SHALL BE LAMINATED AND MEET OSHA REQUIREMENTS.

4. MOUNT SIGN AS INDICATED ON DRAWINGS, BOTTOM OF SIGN SHALL BE 60" AFF [1524].



LABEL COLOR:

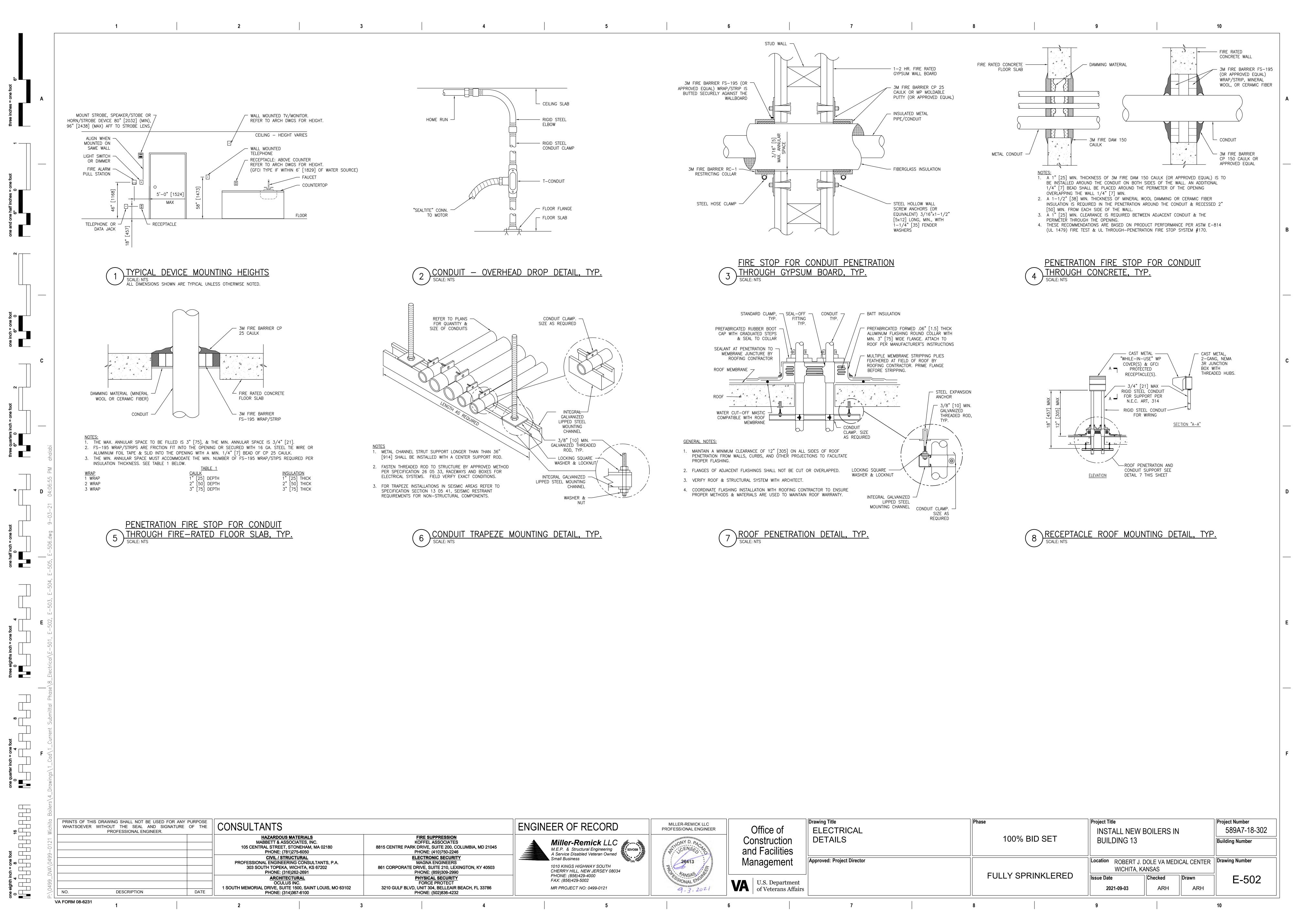
1. LABELS FOR EQUIPMENT FED BY EMERGENCY POWER SHALL BE RED WITH ENGRAVED WHITE LETTERS. 2. LABELS FOR EQUIPMENT FED BY NORMAL POWER SHALL BE BLACK WITH ENGRAVED WHITE LETTERS.

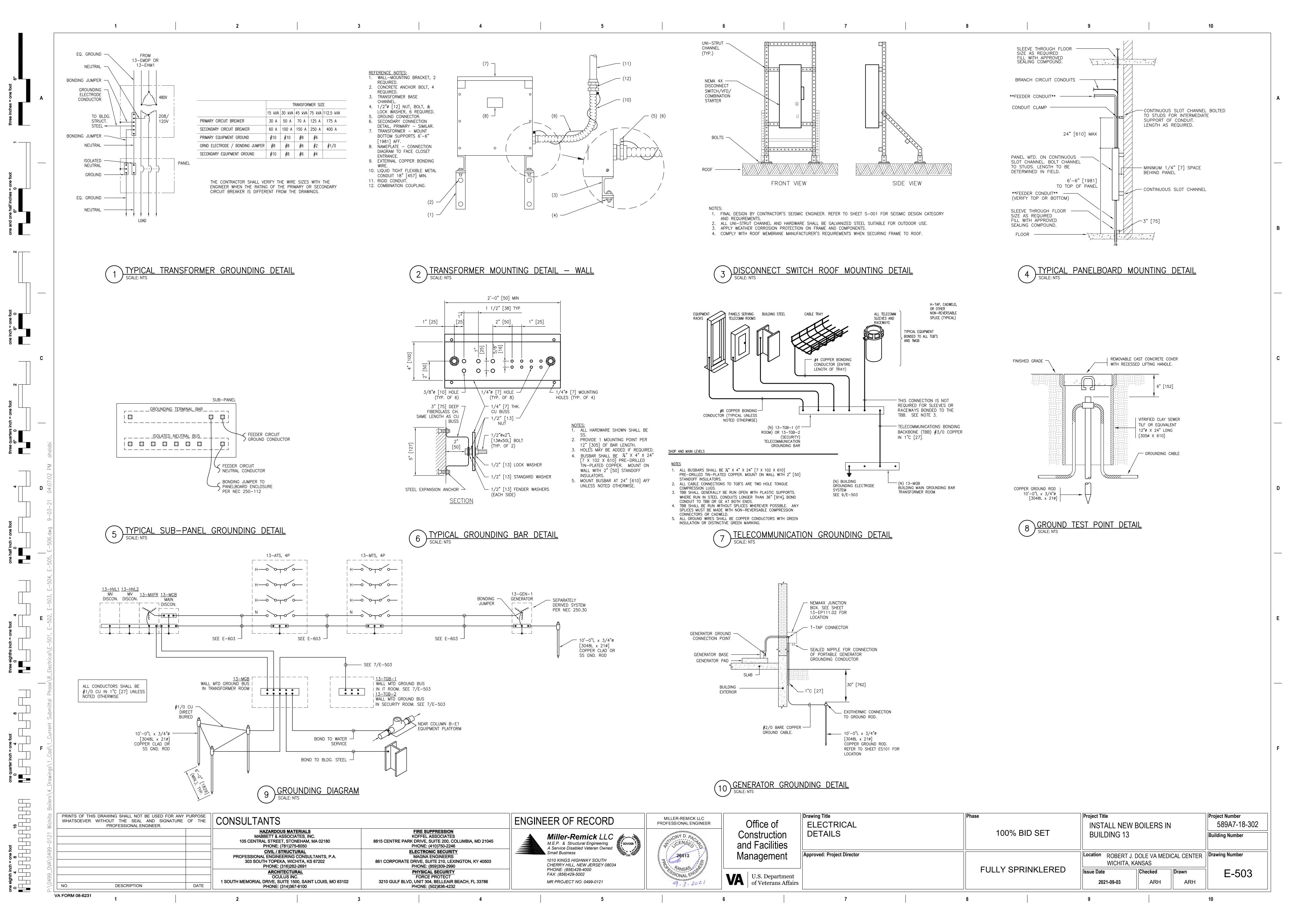
	HIS DRAWING SHALL NOT BE USED FOR A WITHOUT THE SEAL AND SIGNATUR PROFESSIONAL ENGINEER.		CONSULTANTS	
			HAZARDOUS MATERIALS MABBETT & ASSOCIATES, INC. 105 CENTRAL STREET, STONEHAM, MA 02180 PHONE: (781)275-6050	FIRE SUPPRESSION KOFFEL ASSOCIATES 8815 CENTRE PARK DRIVE, SUITE 200, COLUMBIA, MD 21045 PHONE: (410)750-2246
			CIVIL / STRUCTURAL PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA, WICHITA, KS 67202 PHONE: (316)262-2691	ELECTRONIC SECURITY MAGNA ENGINEERS 861 CORPORATE DRIVE, SUITE 210, LEXINGTON, KY 40503 PHONE: (859)309-2990
NO.	DESCRIPTION	DATE	ARCHITECTURAL OCULUS INC. 1 SOUTH MEMORIAL DRIVE, SUITE 1500, SAINT LOUIS, MO 63102 PHONE: (314)367-6100	PHYSICAL SECURITY FORCE PROTECT 3210 GULF BLVD, UNIT 304, BELLEAIR BEACH, FL 33786 PHONE: (502)836-4232

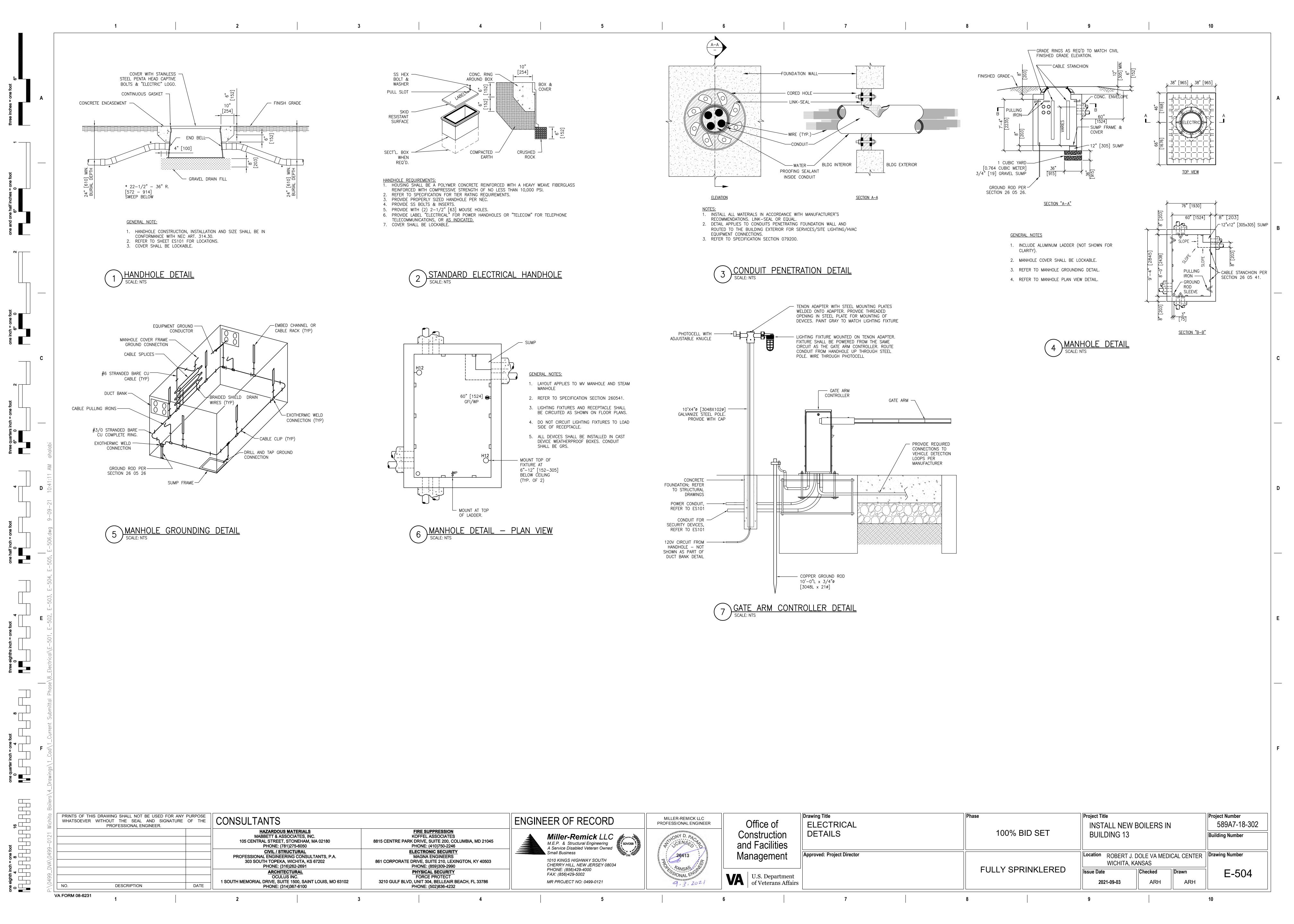


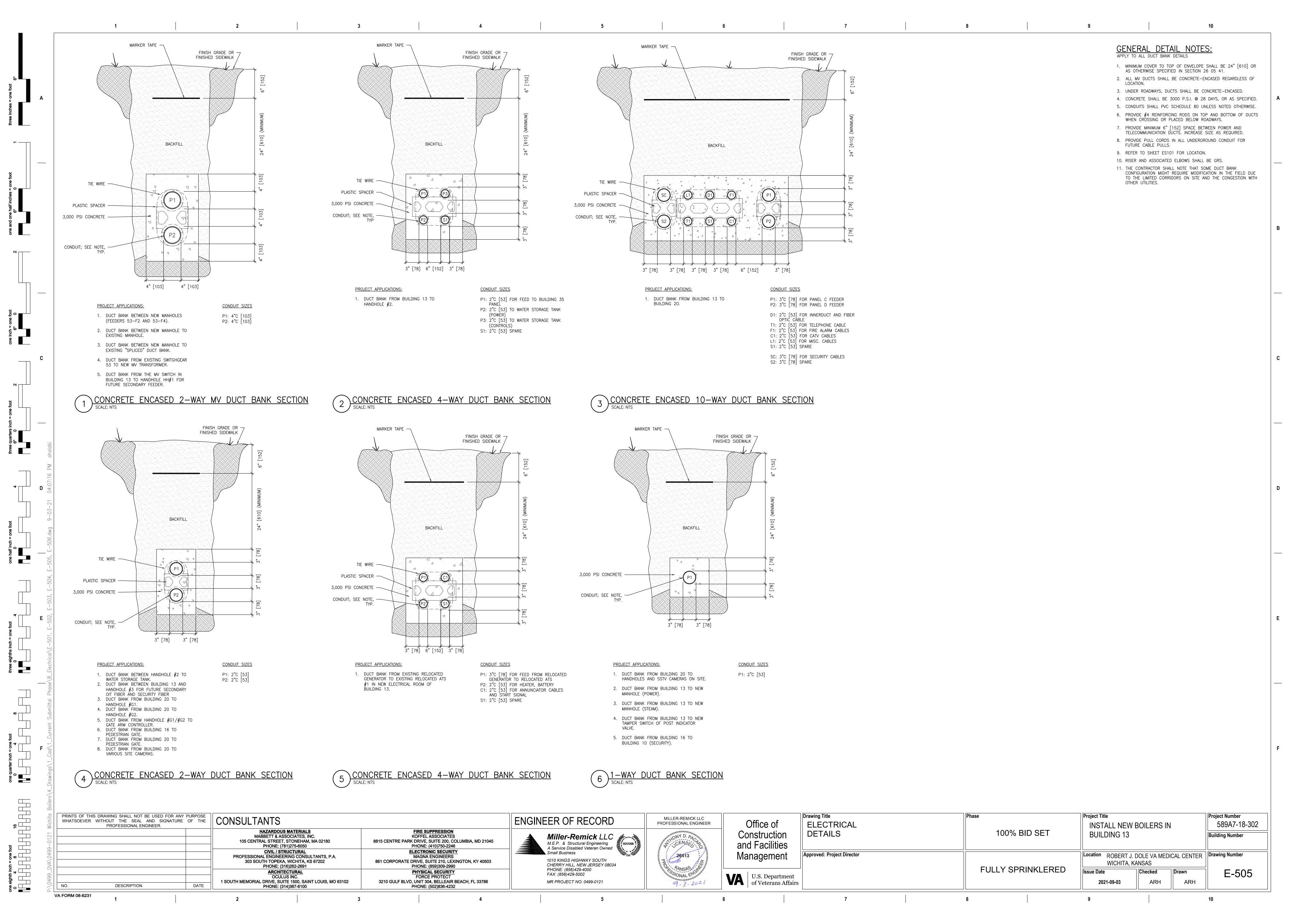


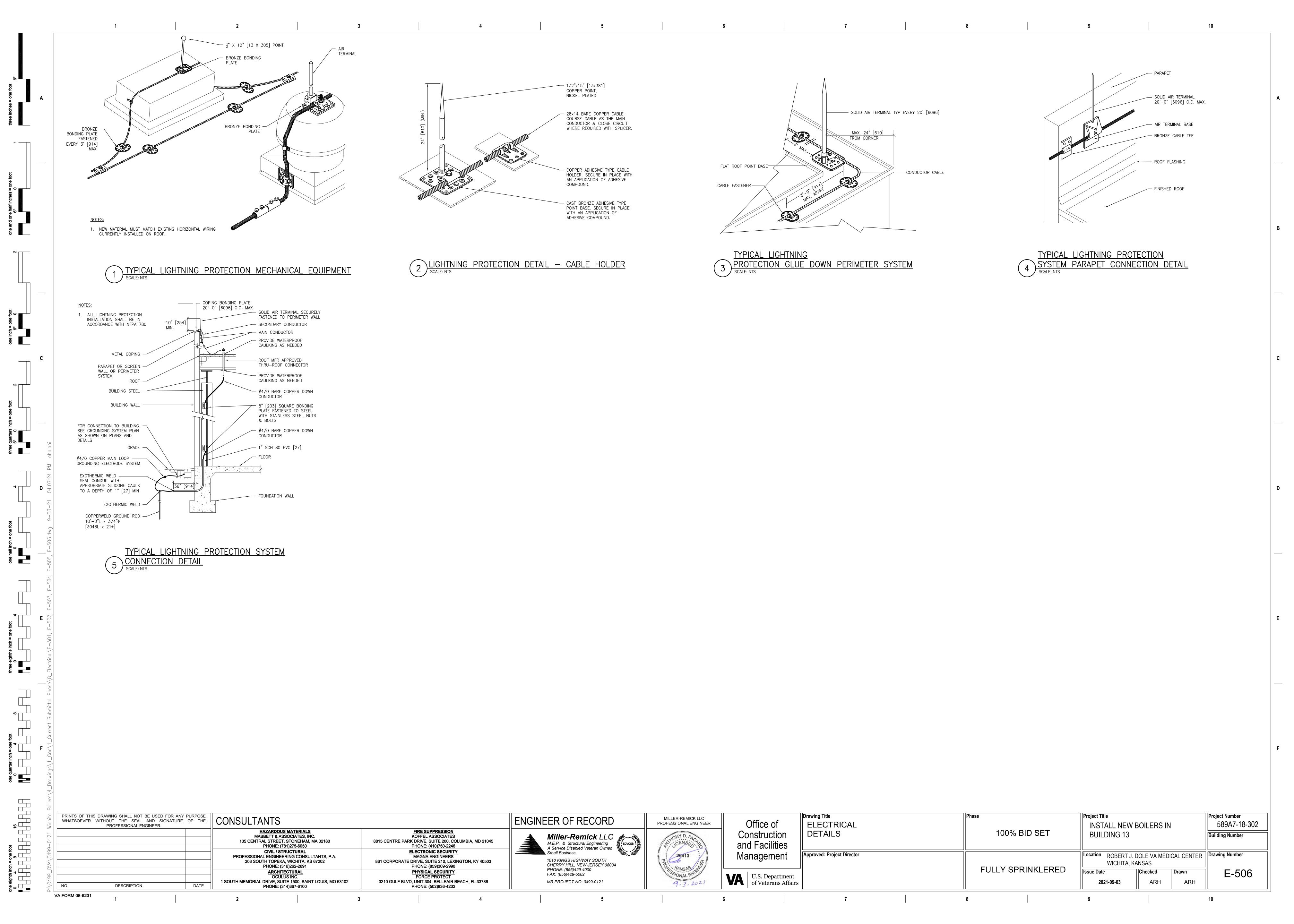
Office of Construction and Facilities	Drawing Title ELECTRICAL DETAILS	Phase 100% BID SET	Project Title INSTALL NEW BOILERS IN BUILDING 13			Project Number 589A7-18-302 Building Number	
Management	Approved: Project Director		Location ROBERT J. WICHITA, K.		DICAL CENTER	Drawing Number	
U.S. Department of Veterans Affairs		FULLY SPRINKLERED	Issue Date 2021-09-03	Checked ARH	Drawn ARH	E-501	

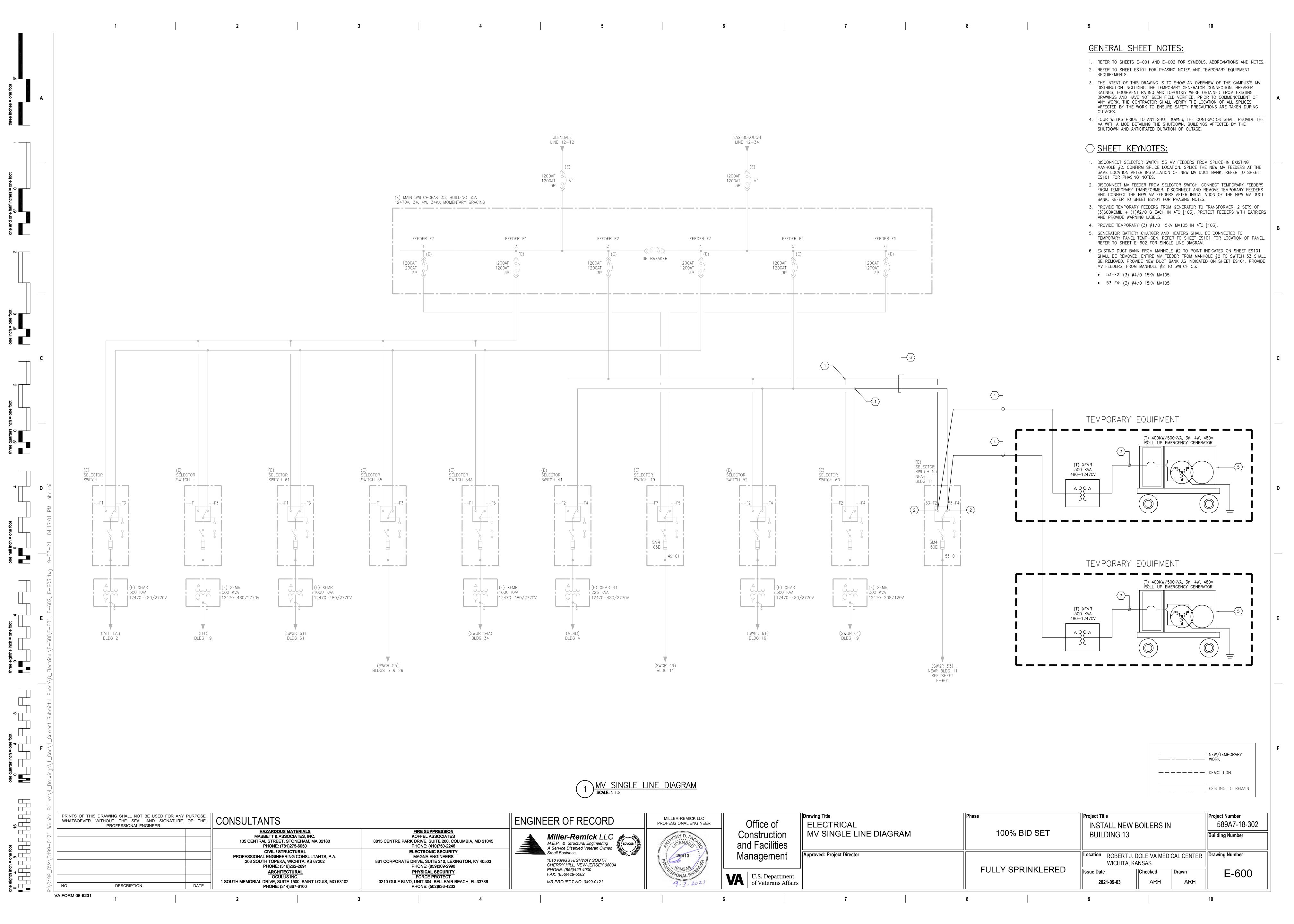


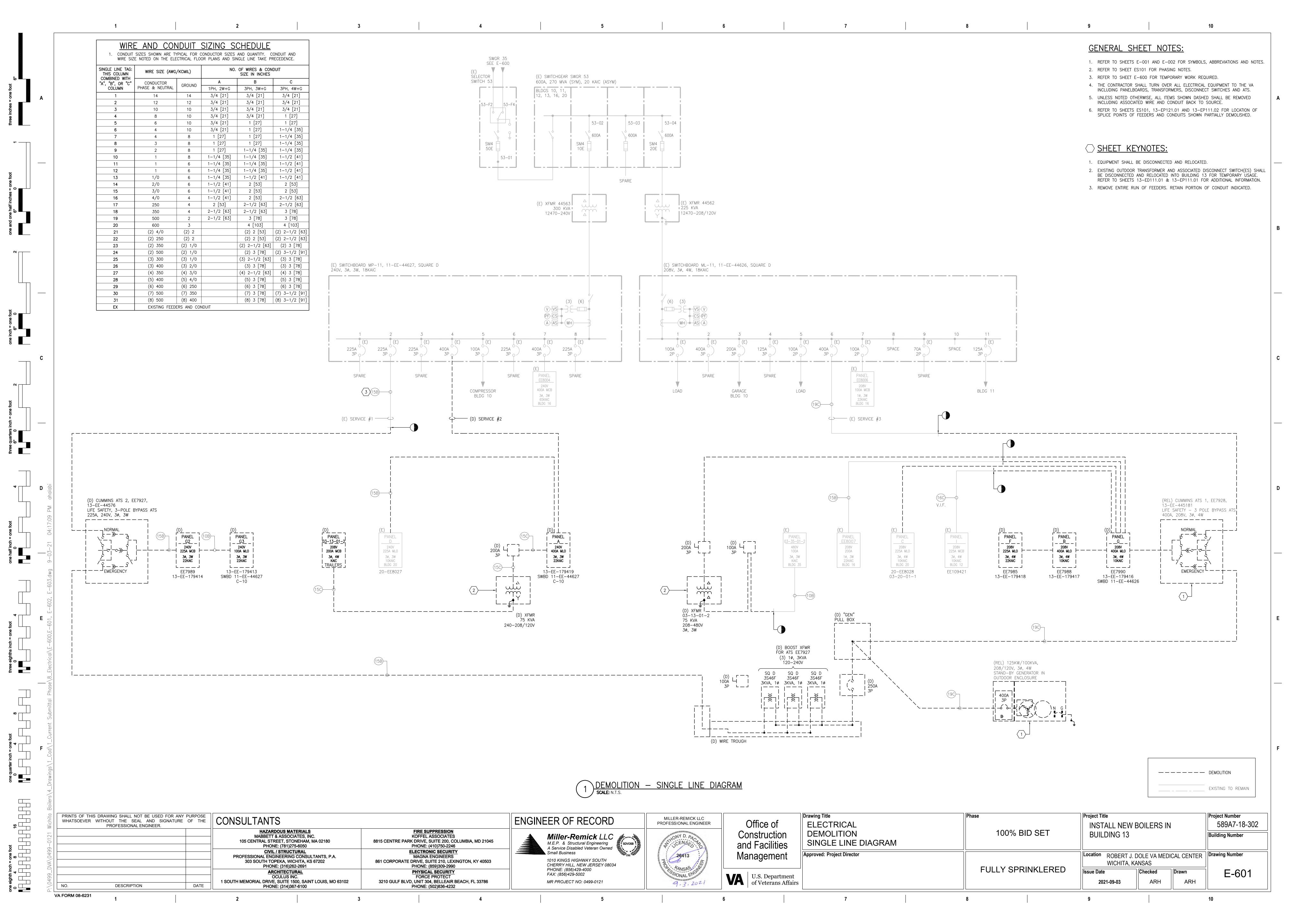


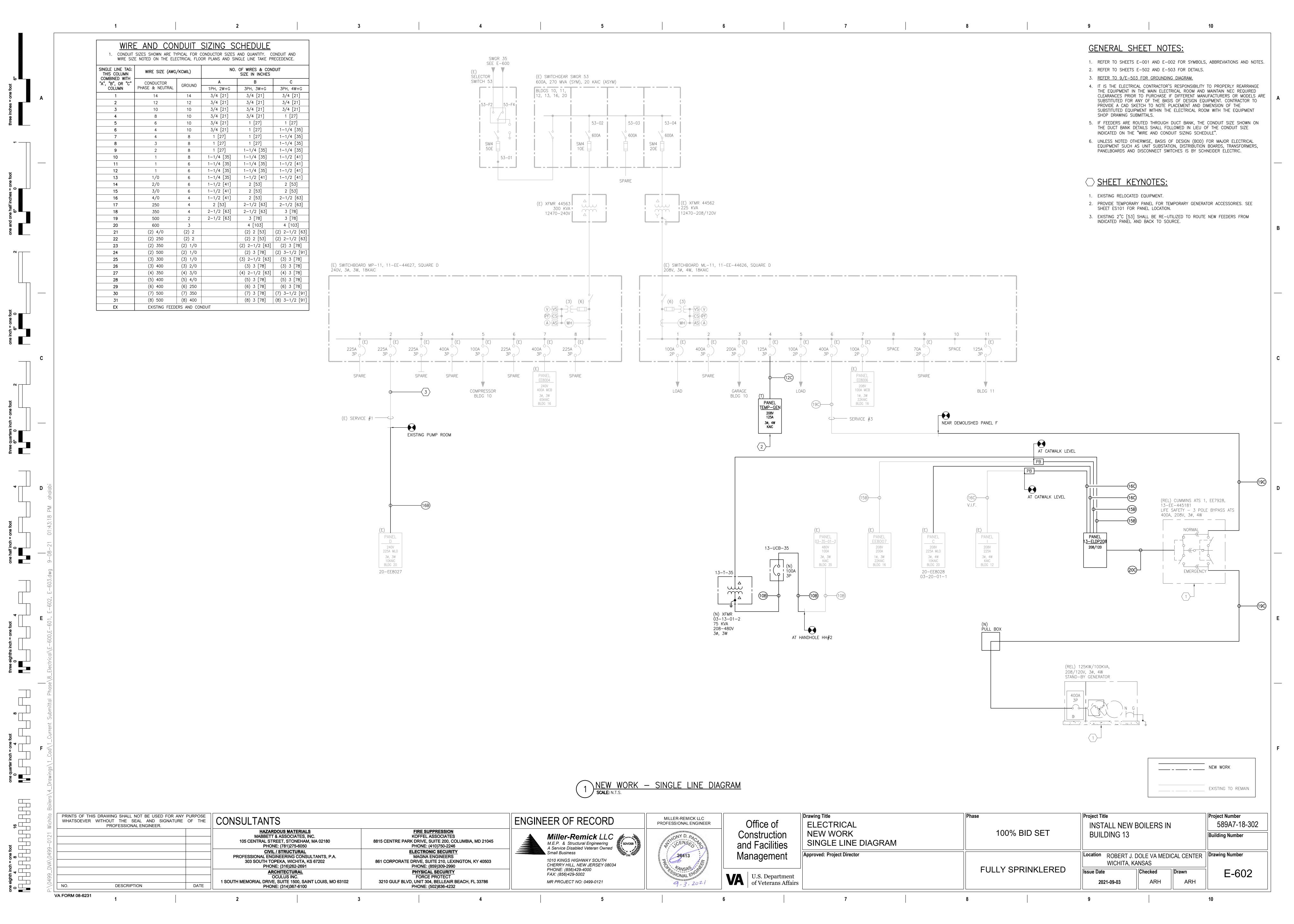


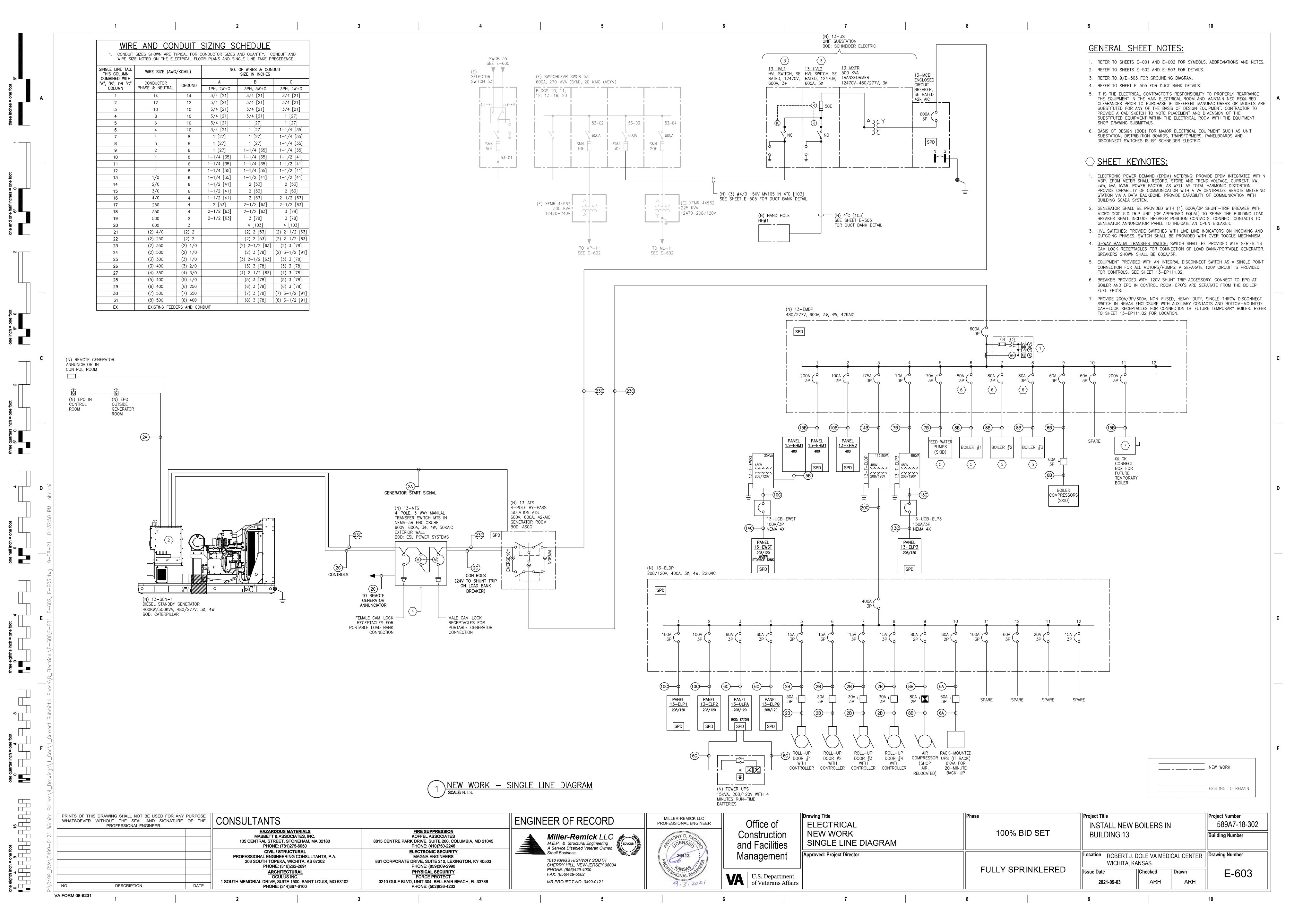












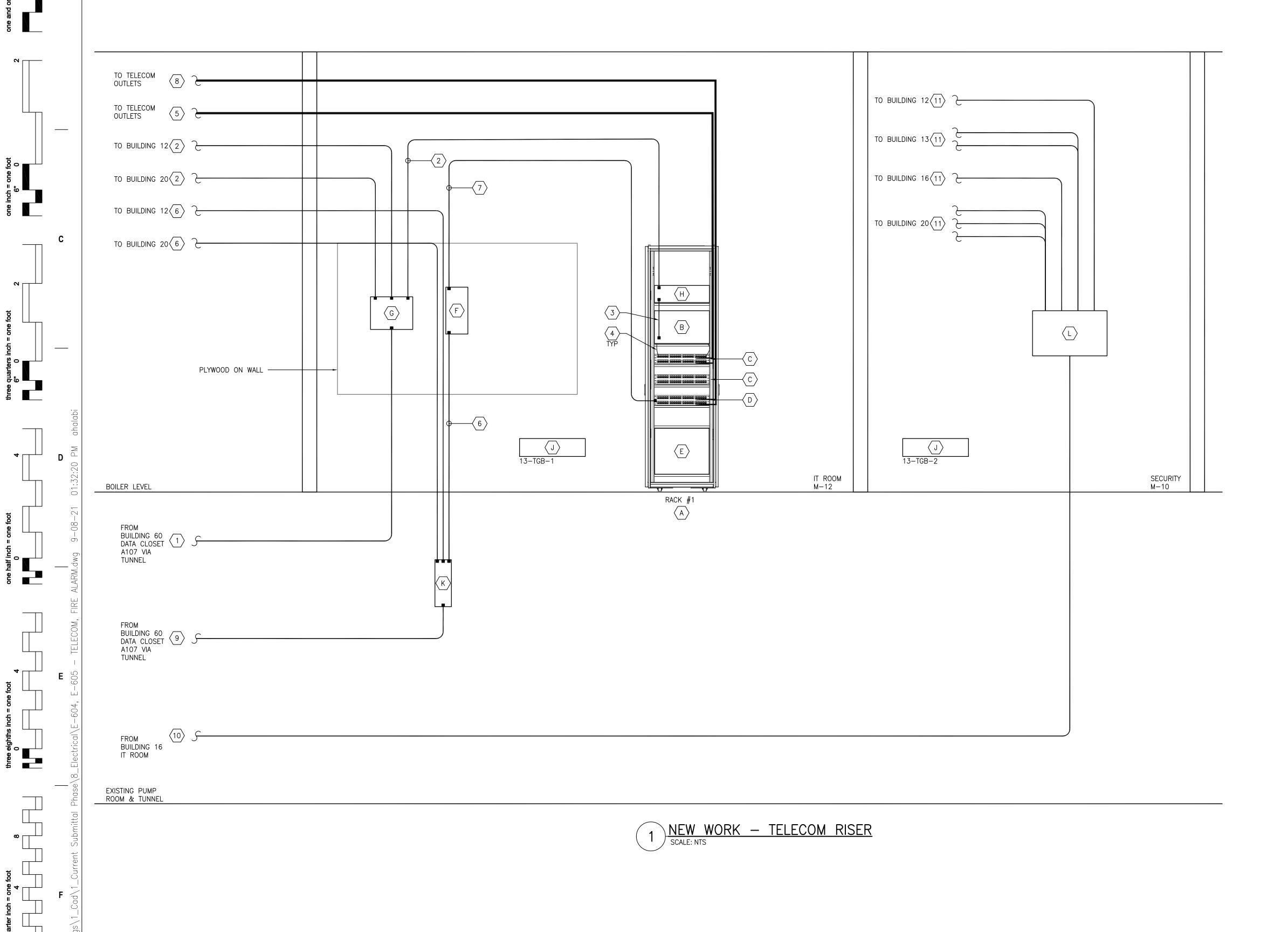
GENERAL SHEET NOTES:

- 1. REFER TO SHEETS E-001 AND E-002 FOR SYMBOLS, ABBREVIATIONS AND NOTES. 2. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF DEVICES AND OUTLETS.
- REFER TO FLOOR PLANS FOR ROUTING OF FIBER OPTIC CABLES AND TELEPHONE CABLES.

TAG	EQUIPMENT NAME	PROVIDED AND INSTALLED BY	NOTES
Α	45RU FLOOR-MOUNT 24"W x 30"D x 7'H [610 x 762 x 2134] WITH 19" RAILS, WHITE.	CONTRACTOR	RACK PER EHRM REQUIREMENTS
В	NETWORK SWITCH	CONTRACTOR	
С	24 PORT CATEGORY 6A SHIELDED PUNCH DOWN PATCH PANEL	CONTRACTOR	QUANTITY PER RACK AS SHOWN
D	24 PORT CATEGORY 6A PUNCH DOWN PATCH PANEL FOR TELEPHONE CABLES	CONTRACTOR	
Е	6U RACK-MOUNTED 8000VA UPS WITH 2U 120V STEP-DOWN TRANSFORMER PROVIDES 120 MINUTES OF BACKUP	CONTRACTOR	CONFIRM REQUIREMENTS WITH VA IT DEPARTMENT
F	TELEPHONE SURGE ARRESTER	CONTRACTOR	
G	FIBER OPTIC BREAK OUT PANEL	CONTRACTOR	ENCLOSURE WALL MOUNT FIBER BOX PATCH PANEL TO HOUSE FIBER OPTIC (BREAK OUT PANEL) CONNECTIONS SHALL BE DONE IN MULTIMODE OPTICAL FIBER, PER VA SPECS/ PAIR TERMINATION
Н	FIBER OPTIC DISTRIBUTION PANEL (DATA)	CONTRACTOR	
J	TELECOMM GROUNDING BUSBAR (TGB)	CONTRACTOR	SEE GROUNDING DETAIL 7/E-503 FOR ALL GROUNDING WIRE SIZE AND TERMINATION POINTS.
K	TELEPHONE SPLICE ENCLOSURE	EXISTING	
L	(REL) AMPLIFIER	EXISTING	RELOCATED AMPLIFIER. RECONNECT TO MATCH EXISTING.

TAG	CABLE ROUTING						0.000
	FROM	TO EQUIPMENT IN TELECOMM ROOM	UL RATING	CABLE TYPE	LENGTH	TERMINATION	NOTES
1	BLDG 60, DATA CLOSET A107	FIBER OPTIC BREAK OUT PANEL	PLENUM	NEW FIBER OPTIC CABLE (BLACK)	: - 1	LC	ROUTE THROUGH TUNNEL AND EXISTING RACEWAY PREVIOUSLY UTILIZED FOR DEMOLISHED FIBER OPTIC CABLE
2	FIBER OPTIC BREAK OUT PANEL	FIBER OPTIC DISTRIBUTION PANEL (DATA)	PLENUM	(1) 12-STRAND MULTIMODE MODE PLENUM RATED RISER FIBER OPTIC OFN-FT6 62.5/125 TYPE OFNP	FIELD MEASURE	PER VAIT DEPARTMENT	PROVIDE (1)#6G RUN WITH TELEPHONE CABLE
3	FIBER OPTIC DISTRIBUTION PANEL (DATA)	NETWORK SWITCH	PLENUM	FO PATCH CORD	FIELD MEASURE	PER VA FMS DEPARTMENT	CONNECTIONS AND CABLING BY VAIT DEPARTMENT.
4	RACK	NETWORK SWITCH	NON-PLENUM	SR COPPER CORD - SHORT LENGTH (1) 4-PAIR CAT 6A (F/UTP)	7'-0" [2134]	CAT 6A T568 PLUG EACH END	CONNECTIONS AND CABLING BY VAIT DEPARTMENT.
5	PATCH PANEL (TELEPHONE)	TELECOMM OUTLETS		(1) 4-PAIR CAT 6A (F/UTP)		-	INDOOR COPPER CABLING FOR BACKBONE HORIZONTAL CONNECTIONS TO DESIGNATED FLOOR. TYPICAL CABLING CONNECTION PER EACH PUNCH DOWN PATCH PANEL MOUNTED ON WALL.
6	TELEPHONE SPLICE ENCLOSURE	DATA SURGE ARRESTER	9	COPPER HORIZONTAL CABLING (TELEPHONE)	- 44		PROVIDE (1)#6G RUN WITH TELEPHONE CABLE FROM EXISTING GROUNDING LUGS AT SPLICE ENCLOSURE TO SURGE ARRESTER.
7	DATA SURGE ARRESTER	PATCH PANEL (TELEPHONE)	-	COPPER HORIZONTAL CABLING (TELEPHONE)	4.5	-	MATCH EXISTING
8	PATCH PANEL (TELEPHONE)	TELECOMM OUTLETS	 ,	(1) 4-PAIR CAT 6A (F/UTP)			INDOOR COPPER CABLING FOR BACKBONE HORIZONTAL CONNECTIONS TO DESIGNATED FLOOR. TYPICAL CABLING CONNECTION PER EACH PUNCH DOWN PATCH PANEL MOUNTED ON WALL.
9	BLDG 60, DATA CLOSET A107	TELEPHONE SPLICE ENCOLSURE		EXISTING COPPER HORIZONTAL CABLING (TELEPHONE)			
10	BLDG 16, IT CLOSET	(REL) AMPLIFIER	PLENUM	(1) 6-STRAND MULTIMODE MODE PLENUM RATED RISER FIBER OPTIC OFN-FT6 62.5/125 TYPE OFNP		LC	FIBER OPTIC CABLE SHALL MATCH EXISTING. AMPLIFIER IS EXISTING AND RELOCATED
11	(REL) AMPLIFIER	TV OUTLETS	PLENUM	RG6		F	PROVIDE 8-PORT TAP FOR CONNECTION OF RG6 CABLES AT THE OUTPUT OF THE AMIPLIFIER

Office of Construction and Facilities	Drawing Title ELECTRICAL TELECOM RISER DIAGRAM	Phase 100% BID SET	INSTALL NEW BOILERS IN			Project Number 589A7-18-302 Building Number 13
Management	Approved: Project Director	FULLY SPRINKLERED	Location ROBERT J. DOLE VA MEDICAL CENTER WICHITA, KANSAS Issue Date Checked Drawn			Drawing Number E-604
U.S. Department of Veterans Affairs			2021-09-03	ARH	ARH	L-004



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MR PROJECT NO: 0499-0121

FAX: (856)429-5002

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A Service Disabled Veteran Owned
Small Business

1010 KINGS HIGHWAY SOUTH CHERRY HILL, NEW JERSEY 08034

MILLER-REMICK LLC

PROFESSIONAL ENGINEER

CENSE

one eighth inch = one foot

0 4 8 16

PRINTS OF THIS DRAWING SHALL NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER.

CONSULTANTS

DATE

DESCRIPTION

VA FORM 08-6231

HAZARDOUS MATERIALS
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